

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of: Dresch et. al  
Serial No.: 09/808,468  
Art Unit: 2881  
Examiner: K. T. Nyguen  
Filing Date: March 14, 2001  
For: Ion Storage Time-Of-Flight  
Mass Spectrometer  
Attorney Docket No. 840.066.202

December 6, 2004

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**RESPONSE**

Sir:

In response to the Office Action of Sept. 22, 2004, in which the Examiner has rejected pending Claims 11 and 13, and has objected to pending Claim 12, please consider the following:

Amend Claim 11 as follows:

11. (Thrice Amended) An apparatus for analyzing chemical species comprising:

(a) a time-of-flight mass analyzer with an ion pulsing region and a detector,

(b) an ion source for producing ions forming an ion beam from said chemical species,

(c) a two-dimensional multipole ion guide having an entrance end where ions enter said ion guide from said ion source and an exit end where ions exit said ion guide, said two-dimensional multipole ion guide functioning as a two-dimensional ion trap, wherein said two-dimensional multipole ion guide comprises a plurality of spaced apart rods parallel to each other and extending from said entrance end to said exit end, said ion beam having an axis thereof which is parallel to said spaced apart rods,